

### AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

#### **LISTING OF CLAIMS**

1-2. (Cancelled)

3. (Currently Amended) An on-line dispersion compensation device for a wavelength division optical transmission system, comprising:

~~The device according to Claim 1, wherein the optical path selector is a two 2\*2 optical coupler~~couplers, and

two chirped grating fiber units ~~are~~ serially connected between the two optical couplers, respectively; which are used for selecting, reflecting and dispersion compensating at least one wavelength inputted and bypassing other wavelengths inputted; wherein

~~one port~~first ports of the two chirped grating fiber units is respectively connected with two arms of ~~one a first~~ port of the first optical coupler<sub>1</sub>;

~~another port~~second ports of the two chirped grating fiber units is respectively connected with two arms of ~~one a first~~ port of the second coupler<sub>2</sub>;

one arm of ~~another a second~~ port of the first coupler is connected with the optical signal input of the device<sub>1</sub>;

one arm of ~~another~~ a second port of the second coupler is connected with the optical signal output of the device; ~~and~~

~~another~~ the other arm of ~~another~~ the second port of the first coupler is connected with ~~another~~ the other arm of ~~another~~ the second port of the second coupler.

4-9. (Cancelled)

10. (Original) The device according to Claim 3, wherein the chirped grating fiber unit is consisted of two opposite portions of chirped grating fibers written on a fiber segment.

11. (Original) The device according to Claim 3, wherein the chirped grating fiber unit is consisted of two chirped grating fibers set oppositely and melted together as a whole.

12. (Original) The device according to Claim 3, wherein bandwidth of the chirped grating fiber unit is one wavelength or multiple wavelengths or tunable wavelengths.